Mars Exploration Science Monthly Newsletter

A publication of the Mars Program Office and the Mars Exploration Program Analysis Group (MEPAG)

January 2015

Mars Science News

Invitation to the 30th MEPAG Meeting

February 24-25, 2015 Monrovia, CA (Los Angeles area)

Professor Lisa Pratt, MEPAG Chair, cordially invites attendance at the 2015 face-to-face meeting of the Mars Exploration Program Analysis Group (MEPAG), scheduled for 1.5 days, February 24-25, 2015, at the Double-Tree Hotel in Monrovia, CA. The meeting is open to all members of the Mars science community, including international colleagues. Key discussion topics will include:

- Status of Mars exploration by NASA and other space agencies
- Interaction with the Human program (HEOMD)
- NASA and ESA landing site selection activities
- Proposed revision of the MEPAG Goals document.

The First Circular for this meeting is posted at http://mepag.nasa.gov/meetings.cfm?expand=m30. The Second Circular, containing hotel and webcast information, along with the agenda, will be posted there in the near-future.

Second Landing Site Workshop for the Mars 2020 Rover

August 4-6, 2015

Pasadena, CA (venue TBD)

This workshop will focus on further evaluation of candidate sites introduced at the first workshop (May 2014) as well as new candidate sites. The candidate landing sites emerging from this workshop will then be considered in more detail by the 2020 Project, Mars Program, and the Science Community. New sites may be proposed and discussed at the workshop, with the expectation that such new sites will be based in part on discoveries related to new data from MRO. Future workshops (beyond 2015) would further narrow the list of sites under consideration to a recommended landing site zone and (eventually) precise landing ellipse. ohn Grant and Matt Golombek, Co-Chairs of the Mars Landing Site Steering Committee, encourage all members of the scientific community to participate in this activity, as robust input from the science community is critical to identifying the optimal landing site for the 2020 rover. The workshop announcement and results from the first workshop are posted on the Mars 2020 landing site website: http://marsnext.jpl.nasa.gov.

Student Travel Grants available for upcoming Mars meetings

Student travel grants are available for two workshops in May: (1) the Workshop on Issues in Crater Studies and the Dating of Planetary Surfaces (May 19-22 in Laurel, MD; due March 5) and (2) the Fourth International Planetary Dunes Workshop (2) (May 19-22 in Boise, ID; due March 5). These opportunities are open to undergraduate and graduate students with Mars-related research interests, who are US citizens or legal residents. Information and the applications are posted on the MEPAG site:

http://mepag.nasa.gov/student.cfm?expand=student. Questions should be directed to Serina Diniega: serina.diniega@jpl.nasa.gov.

Planetary GIS Workshop

May 5-7, 2015 at ESAC, Madrid, Spain

ESA and its Planetary Science Archive (PSA) User Group are pleased to announce a Planetary GIS Workshop that will be held on May 5-7 2015 at ESAC (Madrid, Spain). The following broad areas will be presented and discussed:

- scientific needs and uses (existing, new, cross-disciplinary);
- existing technical solutions;
- open problems and areas suitable to improvement

The workshop aims at targeting geospatial data users and producers in a broad sense. An informal combination of presentation, hands-on and discussion sessions is envisaged. Abstracts for presentations can be submitted after January 15th. For more details, visit the workshop's web page: http://www.rssd.esa.int/index.php?project=PSA&page=gisws

Organizing committee: Angelo Pio Rossi (convener), Nicolas Manaud (convener), Stephan van Gasselt, Trent Hare, Baptiste Cecconi, Dave Heather, Santa Martinez, Jonathan McAuliffe, Juan Gonzalez, Alba Alcol (secretary) and the PSA User Group.

User Workshop for Mars CHEMCAM/LIBS Data at LPSC

The Woodlands, TX; date TBD

ChemCam on Curiosity provides a large and varied geochemical dataset available for the planetary community including laser-induced breakdown spectroscopy (LIBS), passive VIS reflectance spectra, and the highest resolution remote micro-images (RMI) from the rover. More than 200,000 spectra and over 3,000 images from ChemCam available at the Planetary Data System (PDS). More than 30 submitted papers have included results from this data. A LIBS instrument is also being developed for the Mars 2020 mission.

A 2-1/2-hour workshop will be held during the week of the Lunar and Planetary Science Conference (March 15-20, The Woodlands, TX) for community members interested in using this dataset. In the workshop we will describe the LIBS technique as used on ChemCam and data processing for the levels I and 2 provided in the PDS, and will provide updates on the latest calibration data. We are targeting Wednesday evening at 6 pm, subject to conference scheduling. Please see the ChemCam website for updates: http://msl-chemcam.com. The contact is Roger Wiens (rwiens@lanl.gov). The ChemCam data can be found at http://pds-geosciences.wustl.edu/missions/msl/chemcam.htm. Presentation materials will also be posted on the PDS.

Near-term Due Dates (next three months)

Due	Project		
January 7, 2015	European Geosciences Union General Assembly 2015 Abstract deadline		
January 20, 2015	Ground and space observatories: a joint venture to planetary science Registration deadline		
January 22, 2015	Venus Instrument and Laboratory Measurements Workshop Abstract deadline (update)		
February 26, 2015	Comparative Tectonics and Geodynamics of Venus, Earth, and Rocky Exoplanets Abstract deadline		
February 28, 2015	5th PCL Focus Days 2015 Author registration deadline		
March 4, 2015	Astrobiology Science Conference 2015 (Abscicon) Abstract deadline		
March 5, 2015	Workshop on Issues in Crater Studies and the Dating of Planetary Surfaces Abstract deadline		
	4th International Planetary Dunes Workshop Abstract deadline		
March 12, 2015	European Geosciences Union General Assembly 2015 Early registration deadline		
March 16, 2015	Venus Science Priorities Workshop for Laboratory Measurements and Instrument Definition Early registration deadline		

Upcoming Conferences and Workshops

		First Quarter, 2015		
	January 13-15, 2015 Tokyo, JAPAN	Earth-Life Science Institute 3rd International Symposium http://www.elsi.jp/en/research/activities/symposium/2015/01/sympo-03.html		
	February 4-6, 2015 Houston, TX, USA	Workshop on the Early Solar System Bombardment III http://www.hou.usra.edu/meetings/bombardment2015/		
	February 24-25, 2015 Monrovia, CA, USA	30th MEPAG Meeting http://mepag.nasa.gov/meetings.cfm?expand=m30		
Correct-	February 24-26, 2015 Kennedy Space Center, FL, USA	Planetary Protection Workshop http://planetaryprotection.nasa.gov/course		
	March 2-5, 2015 Santiago, CHILE	Ground and space observatories: a joint venture to planetary science http://www.eso.org/sci/meetings/2015/Planets2015.html		
	March 7-14, 2015 Big Sky, MT, USA	IEEE Aerospace Conference http://www.aeroconf.org/		
	March 11-12, 2015 Location TBA	Mars Express Science Working Team Meeting For more information, contact Håkan Svedhem: hsvedhem@esa.int		
	March 16-20, 2015 The Woodlands, TX, USA	46th Lunar and Planetary Science Conference http://www.hou.usra.edu/meetings/lpsc2015/		
New!	March 24-26, 2015 Moffett Field, CA, USA	Planetary Protection Knowledge Gaps for Human Extraterr. Missions Workshop http://www.hou.usra.edu/meetings/ppw2015/		
	March 31-April 2, 2015 Washington DC, USA	NRC's Committee on Astrobiology and Planetary Science (CAPS)		
	Second Quarter, 2015			
		Second Quarter, 2015		
	April 7-8 2015 Hampton, VA, USA	Venus Science Priorities Workshop for Laboratory Measurements and Instrument Definition http://www.hou.usra.edu/meetings/venustech2015/		
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	April 12-17, 2015 Vienna, AUSTRIA April 28-29, 2015	Venus Science Priorities Workshop for Laboratory Measurements and Instrument Definition http://www.hou.usra.edu/meetings/venustech2015/ European Geosciences Union General Assembly 2015 http://www.egu2015.eu/home.html 5th PCL Focus Days 2015		
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New!	June 1-4, 2015 Kazan, RUSSIA	Second IAPS Scientific Assembly: Observation and Understanding of the Moon, moons & Planets http://kpfu.ru/astrogeokazan-iaps-2015.html
	June 9-11, 2015 Berlin, GERMANY	IIth IAA Low-Cost Planetary Mission Conference (LCPM-II) http://www.dlr.de/LCPMII
	June 15-19, 2015 Cologne, GERMANY	I2th International Planetary Probe Workshop (IPPW-I2) http://www.planetaryprobe.eu/
	June 15-19, 2015 Chicago, IL, USA	Astrobiology Science Conference 2015 (Abscicon) http://www.hou.usra.edu/meetings/abscicon2015/
		Third Quarter, 2015
	July 27-31, 2015 Berkeley, CA, USA	Annual Meetings of the Meteoritical Society http://metsoc2015.ssl.berkeley.edu/
	August 4-6, 2015 Pasadena, CA, USA	2nd Landing Site Workshop for the Mars 2020 Rover http://marsnext.jpl.nasa.gov/
	August 16-21, 2015 Prague, CZ	Goldschmidt 2015 http://goldschmidt.info/2015/
	September 16-17, 2015 Irvine, CA, USA	NRC's Committee on Astrobiology and Planetary Science (CAPS)
	September 27-October 2, 2015 Nantes, FRANCE	European Planetary Science Congress http://www.epsc2015.eu/home.html
		Fourth Quarter, 2015
	November 1-4, 2015 Baltimore, MD, USA	Geological Society of America Annual Meeting
	November 8-13, 2015 National Harbor, MD, USA	47th Meeting of the American Astronomical Society Division for Planetary Sciences (DPS 2015) http://dps.aas.org/meetings/current
	November 9-13, 2015 Foz do Iguacu, BRAZIL	2nd Symposium of the Committee on Space Research (COSPAR 2015): Water and Life in the Universe
	December 14-18, 2015 San Francisco, CA, USA	AGU Fall Meeting

First and Second Quarters, 2016			
	January 7, 2016	20-Day ExoMars Launch Period Opens	
	March 4, 2016	20-Day Insight Launch Window Opens	
	March 29-31, 2016 Washington DC, USA	NRC's Committee on Astrobiology and Planetary Science (CAPS)	
New!	April 4-8, 2016 Oxford, UK	International Venus Conference http://venus2016.uk/	

Third and Fourth Quarters, 2016			
	July 30-August 7, 2016 Istanbul, TURKEY	41st Scientific Assembly of the Committee on Space Research (COSPAR 2016) and Associated Events http://www.cospar-assembly.org	
	August 7-12, 2016 Berlin, GERMANY	Annual Meetings of the Meteoritical Society	
	September 14-15, 2016 Irvine, CA, USA	NRC's Committee on Astrobiology and Planetary Science (CAPS)	
	September 28, 2016	Insight Arrival at Mars	
	October 16-21, 2016 Pasadena, CA, USA	Joint DPS-EPSC Meeting	
	October 19, 2016	ExoMars Arrival at Mars	

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Start of Northern Spring / $L_{\mbox{\scriptsize s}}$ 0	7/31/2013	6/18/2015	5/05/2017
Start of Northern Summer / $L_{\mbox{\scriptsize s}}$ 90	2/15/2014	1/03/2016	11/20/2017
Start of Northern Autumn / L_s 180	8/17/2014	7/04/2016	5/22/2018
Start of Northern Winter / L _s 270	1/11/2015	11/28/2016	10/16/2018

Special holidays to consider when scheduling conferences/workshops/meetings

Good Friday	4/3/2015	3/25/2016	4/14/2017	3/30/2018	
Rosh Hashanah	9/14/2015	9/16/2016	9/20/2017	9/10/2018	
Yom Kippur	9/23/2015	9/25/2016	9/29/2017	9/19/2018	
(Note that Jewish holidays start at sundown the previous evening)					
Thanksgiving Day, Canada	10/12/2015	10/8/2016	10/9/2017	10/8/2018	
Thanksgiving Day, U.S.	11/26/2015	11/22/2016	11/23/2017	11/22/2018	
Christmas Day	12/25/2015	12/25/2016	12/25/2017	12/25/2018	

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Please send your Mars Community Announcements and calendar items for inclusion in next month's email to:

Carla de la Paz at paz@jpl.nasa.gov, 818-354-3160.

All announcements listed in this newsletter will be posted on the MEPAG website, available at:

http://mepag.jpl.nasa.gov

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